

Soluble Advanced Glycation End Product-Specific Receptor Human HEK293

Product Data Sheet

Type: Recombinant

Source: HEK293

Species: Human

Other names: Receptor for advanced glycosylation end product, AGER, RAGE

Cat. No.:

RD172116100- (0.1 mg)

HEK

Description

Total 331 AA, MW: 35.2 kDa (calculated). C-terminal Flag-tag 11 AA (highlighted).

Introduction to the Molecule

The receptor for advanced glycation end products (RAGE) is a multiligand member of the immunoglobulin superfamily of cell surface molecules. It mediates interactions of advanced glycation end products (AGE), the products of nonenzymatic glycoxidation of proteins/lipids that accumulate in the plasma and tissues of patients with diabetes.

Research topic

Diabetology - Other Relevant Products, Neural tissue markers, Renal disease

Amino Acid Sequence

AQNITARIGE PLVLKCKGAP KKPPQRLEWK LNTGRTEAWK VLSPQGGGPW DSVARVLPNG SLFLPAVGIQ DEGIFRCQAM
NRNGKETKSN YRVRVYQIPG KPEIVDSASE LTAGVPNKVG TCVSEGSYPG GTLSWHLDGK PLVPNEKGVS VKEQTRRHPE
TGLFTLQSEL MVTTPARGGDP RPTFSCSFSP GLPRHRALRT APIQPRVWEP VPLEEVQLVV EPEGGAVAPG GTVTTLTCEVP
AQPSPQIHWM KDGVPPLPLPP SPVLILPEIG PQDQGTYSYCV ATHSSHGPE SRAVSISIIE PGEEGPTAGS VGGSGLGTLA
AAADYKDDDD K

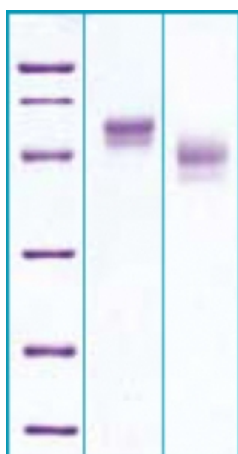
Source

HEK293

Purity

>95%

SDS-PAGE gel



12% SDS-PAGE separation of Human sRAGE

1. MW marker - 14, 21, 31, 45, 66, 97 kDa

2. reduced and heated sample, 5 µg / lane

3. nonreduced and nonheated sample, 5 µg / lane

Formulation

Filtered (0.4 µm) and lyophilized from 0.5 mg/mL in 50 mM Tris-HCl pH 7.5, 50 mM NaCl.

Reconstitution

Add deionized water to a working concentration approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.

Product is not sterile! Please filter this product by appropriate sterile filter before using it in the cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store lyophilized protein at ?20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized protein remains stable until the expiry date when stored at ?20°C.

Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.

References to this Product

- Van Crombruggen K, Holtappels G, De Ruyck N, Derycke L, Tomassen P, Bachert C. *RAGE processing in chronic airway conditions: involvement of Staphylococcus aureus and ECP.* J Allergy Clin Immunol. 2012 Jun;129 (6):1515-21.e8

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium
<http://www.gentaur-worldwide.com>